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Largest importer of optical
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Dun & Bradstreet rating AA1

no. 24

1957



BINOCULARS
&
OPERA GLASSES



TELESCOPES
&
MICROSCOPES



CLOCKS
&
BAROMETERS



CAMERAS
&
LENSES



GUNS
&
AMMUNITION

**PRICE &
QUALITY
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HOW TO SELECT A BINOCULAR

In the following pages, descriptions and illustrations are given for over 60 models of binoculars, field and opera glasses. Every binocular, opera, and field glass is a precision instrument having its own purpose and use. There is no all-purpose glass made. When choosing a binocular, primary consideration must be given to its optical capacity. Since most binoculars look alike from the outside, it is the "inside story" which determines the optical quality of the glass, and therewith the price.
... and now to some specific questions ...

What does 6 x 30, 8 x 30, etc., mean?

The first number indicates the magnification. (The number of times the object appears closer to the naked eye.) The lowest magnification adequate for the purpose is usually the best choice. High power glasses do not necessarily increase the sharpness and brightness of the object, unless favorable light conditions exist and no vibrations disturb the viewer. The second number gives the diameter of the objective lens (closest to the object) in millimeters (25mm = 1 inch). The size of this lens determines the light gathering capacity and the brightness of the image. It does not determine the field of view. During daytime, the optical capacity is, in the main, governed by the magnification of the glass. At night, dawn, and dusk, the light gathering capacity becomes the decisive factor.



What is coating?

This is a process whereby a very thin coating of special transparent magnesium fluoride is applied to the air-to-glass surfaces of the optics. This increases transparency as much as 50%.

What determines the field of view?

The field of view of a binocular depends partly on the magnification, (the larger the magnification, the smaller becomes the field of view) on the ocular system, and on the size of the prisms. Standard view binoculars have a two lens ocular system — the ocular and the field lens. True wide-angle binoculars have a complex ocular system, consisting of the ocular lens, the field lens, and the wide field lens, in addition to oversize prisms. This system is very costly and therefore, a truly wide field is only found in expensive glasses. (such as Mirapan 600, Supralux 465 or Zeiss Deltrintem).

Individual-or Center Focus, which is best?

There are two types of focusing mechanisms. One is the Center Focusing (CF), whereby the object is brought into focus by first setting the right eyepiece and then bringing the object into focus by adjusting the centerwheel. The other is the Individual Focus (IF) whereby each eye has to be focused separately, as no centerwheel is supplied. The choosing of one or another type is mainly one of a personal preference. Individual Focus usually is preferred for high power glasses, and the military. Hunters, naturalists and the average user, prefer the center focus mechanisms as they are easier to manipulate. As a rule, the individual focus glass is a must where moisture or sea air is around.

Which glass is recommended for what purpose?



For the theater and indoor use: 2½x — 3x opera glasses.

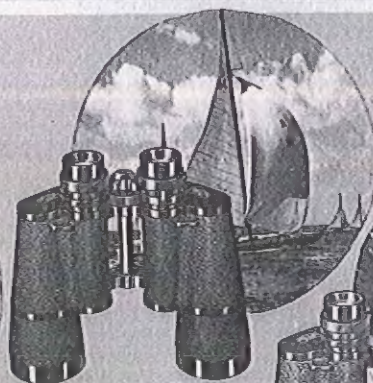


For sporting events: 3x — 4x field glasses.

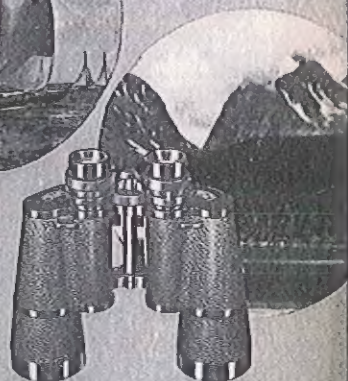


For Hunting, Outdoors, Mountains: 6 x 30, 8 x 25, 8 x 30, 7 x 35.

(preferably center focus).



For marine and night use: 7 x 50 (preferably Individual focus).



For high mountains, distant viewing: 10 x 50, 15 x 50, 15 x 56, 20 x 56.

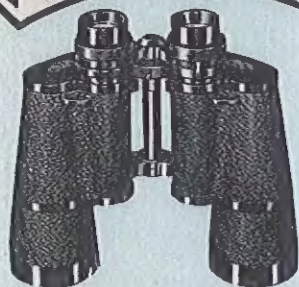


We trust that the above information will assist you in choosing the right instrument.

WIDE ANGLE BINOCULARS

RANGER

From Germany



RANGER 7 x 50

COATED • Center Focus •
30½ oz. Featherweight •
Magnesium body • First
Quality.

#373 \$125.00



RANGER 10 x 50

COATED • Center Focus •
30¾ oz. Featherweight •
Magnesium body • First
Quality.

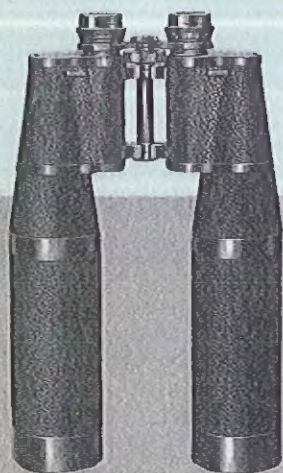
#374 \$135.00



RANGER 8 x 60

COATED • Center Focus •
39 oz. Featherweight •
Magnesium body • First
Quality.

#367 \$190.00



RANGER 20 x 60

COATED • Center Focus
3 lb. • Real Powerhouse

#370 \$230.00

ALL BINOCULARS
FURNISHED WITH
CASE AND STRAPS

New
ALL INTERNAL and
EXTERNAL OPTICAL
SURFACES HARD
COATED

7 x 35

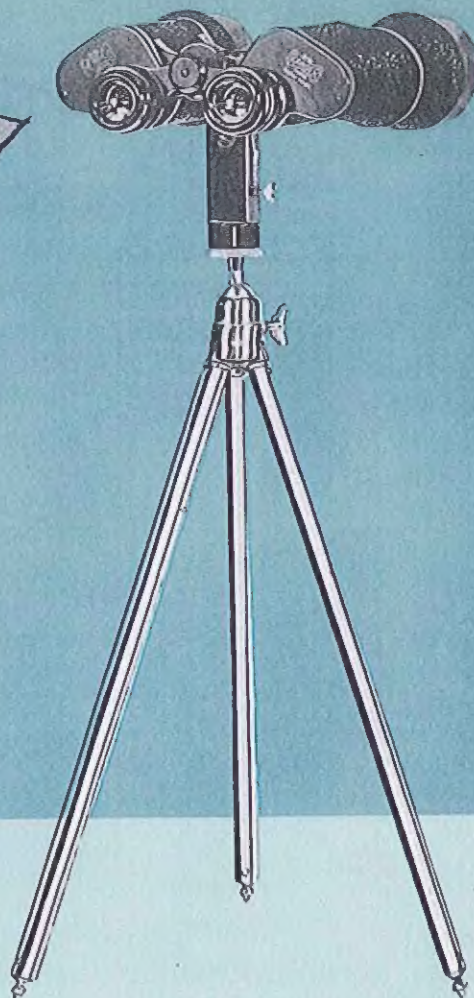
COATED • Center Focus •
16¾ oz. Featherweight •
Magnesium body • WIDE
ANGLE • First Quality

#381 \$80.00



WIDE ANGLE

Highest grade 7 x 35 Binoculars
SOLD WITH LIFETIME GUARANTEE



HY-SCORE Binocular Clamp on Tripod with Swivel Head

Very sharp definition is always assured when binoculars are mounted on tripods. A must for best viewing results, when power of binoculars are 10 or more. The Hy-Score Binocular Clamp is made of blackened aluminum; the tripod of nicked steel with large, adjustable swivel head for rigidity; 16" telescoping tripod opens to 54"; weight 22 oz.

#714 Hy-Score Binocular Clamp (only) \$ 4.95

#702 Steel tripod with swivel head (only) \$ 8.50

#716 Hy-Score Binocular Clamp Set (consists of #714 Binocular
Clamp and #702 tripod as illust.) Special Price For Set \$12.50

ALL RANGER BINOCULARS
ARE SOLD WITH
LIFETIME GUARANTEE

FEATHERWEIGHT BINOCULARS

New
ALL INTERNAL and
EXTERNAL OPTICAL
SURFACES HARD
COATED

SPORTSTER

*From
Germany*

ALL BINOCULARS
FURNISHED WITH
CASE AND STRAPS



Lightest
6 x 30

SPORTSTER 6 x 30

COATED • Center Focus •
13 oz. Featherweight •
Magnesium body • First
Quality.

#320 \$70.00

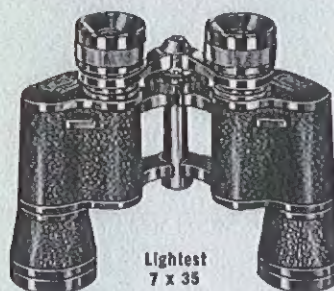


Lightest
8 power

SPORTSTER 8 x 30

COATED • Center Focus •
13½ oz. Featherweight •
Magnesium body • First
Quality.

#321 \$72.50



Lightest
7 x 35

SPORTSTER 7 x 35

COATED • Center Focus •
15 oz. Featherweight •
Magnesium body • First
Quality.

#325 \$75.00



Highest
Luminosity
8 power

SPORTSTER 8 x 40

COATED • Center Focus •
19 oz. Featherweight •
Magnesium body • First
Quality.

#399 \$80.00



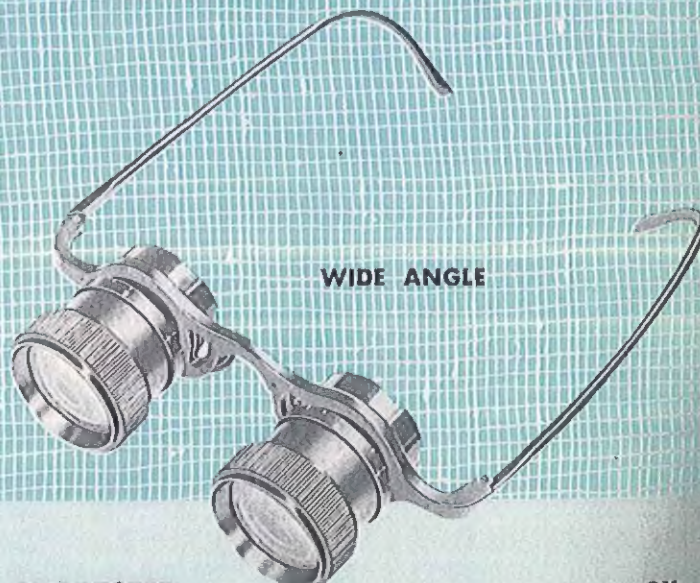
8½ oz.



SPORTSTER 6x24

COATED • Center Focus •
8½ oz. • Featherweight •
Magnesium body • First
Quality.

#300 \$65.00



WIDE ANGLE

SPORTSTER

2.2X

New and unusual design makes the SPORTOCULAR a wonderful aid to all sportsmen. Compact design makes them inconspicuous to wear, and the low 2.2X magnification permits them to be used for long periods of time without eye fatigue. Has interpupillary adjustment. The coated optics, the wide field of vision of 394 yards per 1000 yards, and the high light transmission of 196, assures maximum visibility, even at dusk. Featherweight, only 2¼ ounces, handsome black finish, in genuine brown cowhide leather case. German.

#365

\$25.00

GERMAN MONOCULARS

Weight approx. 5½ ozs.



#304M	6x30 Uncoated	\$25.00
#308M	8x30 Uncoated	\$26.25
#320M	6x30 Coated	\$35.00
#321M	8x30 Coated	\$36.25
#325M	7x35 Coated	\$37.50
#373M	7x50 Coated	\$62.50
#374M	10x50 Coated	\$67.50

WIDE ANGLE BINOCULARS

ALL BINOCULARS
FURNISHED WITH
CASE AND STRAPS



SILVAMAR 6x30

COATED • Individual Focus
12½ oz. Featherweight •
Magnesium body • High-
est Quality.

#328

\$100.00

SILVAREM 6x30

COATED • Center Focus •
12½ oz. Featherweight •
Magnesium body • High-
est Quality.

#329

\$110.00



BINOCTAR 7x50

COATED • Individual Focus
29½ oz. Featherweight •
Magnesium body • High-
est Quality.

#331

\$175.00

BINOCTEM 7x50

COATED • Center Focus •
29½ oz. Featherweight •
Magnesium body • High-
est Quality.

#332

\$185.00



ZEISS is a name unequalled in optics; it continues to denote the finest binoculars in the world. Made to fill every need, fishermen, nature lovers, and outdoorsmen, generally will find these the perfect companion for their trips. On professional levels, engineers, architects and surveyors will find immeasurable assistance in these fine, precision instruments. To the sports enthusiast, these compact, lightweight glasses bring every detail of the game's action.



#333

#334

DECAREM 10x50

COATED • Center Focus •
30¾ oz. Featherweight •
Magnesium body • High-
est Quality.

#333

\$205.00

PENTECAREM

COATED • Center Focus •
30¾ oz. Featherweight •
Magnesium body • High-
est Quality.

#334

\$250.00

15x50



DELTRINTEM 8x30

COATED • Center Focus •
with new WIDE ANGLE,
optical system • 14¾ oz.
Featherweight • Magnesium
body • Highest Quality.

#330

\$135.00

WIDE ANGLE
HIGHEST GRADE

FEATHERWEIGHT BINOCULARS

MT. RAINIER



MT. RAINIER 8 x 25
COATED • Center Focus • 12 oz. • Featherweight.
#339 \$35.00



MT. RAINIER 8 x 30
COATED • Center Focus • 13 oz. • Featherweight.
#317 \$38.00

ALL BINOCULARS FURNISHED
WITH CASE AND STRAPS

ARISTOCRAT 8 x 30
UNCOATED • Center Focus • Otherwise like #317.
#302 \$35.00

MT. RAINIER 7 x 35
COATED • Center Focus • 20 oz. •
#303 \$52.00



CHALLENGER 8 x 32
WIDE ANGLE • Center Focus • UNCOATED • 18 oz.
#307 \$55.00

BINOCULARS

SEE PRICES ON PAGES A and B,
REAR OF CATALOG

From Japan

THOROBRED



THOROBRED 7 x 50
COATED • Center Focus • 38 oz. •
#397



THOROBRED 10 x 50
COATED • Center Focus • 38 oz. •
#384

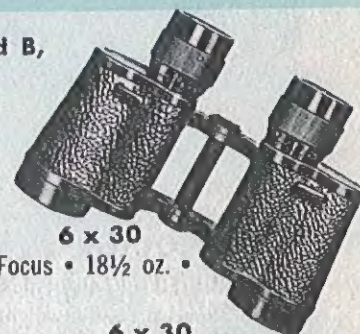
THOROBRED 7 x 50
COATED • Individual Focus • Otherwise like #397. #315



THOROBRED 16 x 50
COATED • Center Focus • 38 oz. •
#385

THOROBRED 7 x 35
COATED • Center Focus • 22 oz. •
#396

THOROBRED 7 x 35
COATED • Individual Focus • Otherwise like #396. #344



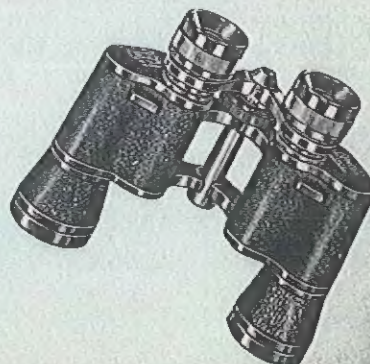
THOROBRED 6 x 30
COATED • Center Focus • 18½ oz. •
#394

THOROBRED 6 x 30
COATED • Individual Focus • Otherwise like #394. #389



THOROBRED 8 x 30
COATED • Center Focus • 18½ oz. •
#395

THOROBRED 8 x 30
COATED • Individual Focus • Otherwise like #395. #391



AMERICAN STYLE BINOCULARS

WOODSMAN



ULTRA
WIDE ANGLE
(531 ft.)

WOODSMAN 7 x 35

COATED • Center Focus • 30 oz. • American Style • The best Wide Angle binocular made in Japan • Large Ocular.
#390



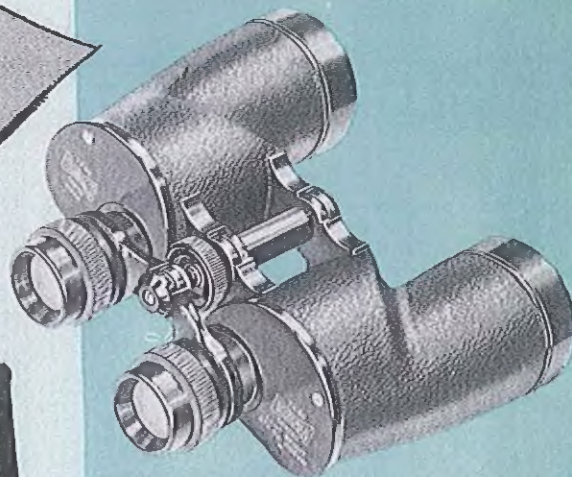
ULTRA
WIDE ANGLE
(473 ft.)

WOODSMAN 8 x 40

COATED • Center Focus • 32 oz. • American Style • The best Wide Angle binocular made in Japan • Large Ocular.
#314

SEE PRICES ON PAGES A and B,
REAR OF CATALOG

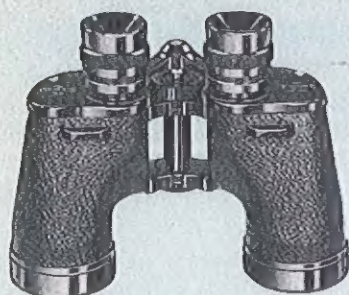
*From
Japan*



WOODSMAN 7 x 50

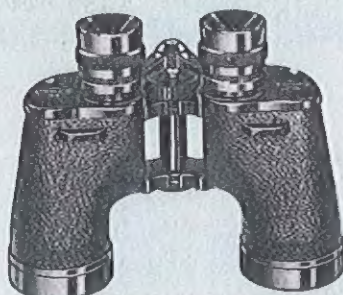
COATED • Center Focus • 35 oz. American Style.
#388

ALL BINOCULARS FURNISHED
WITH CASE AND STRAPS



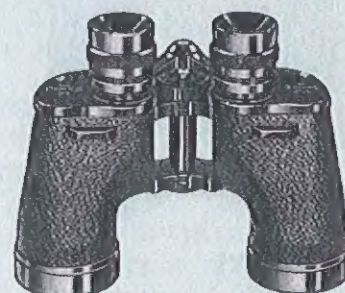
WOODSMAN 6 x 30

COATED • Center Focus • 18 oz. American Style.
#341



WOODSMAN 7 x 35

COATED • Center Focus • 21 oz. American Style.
#326

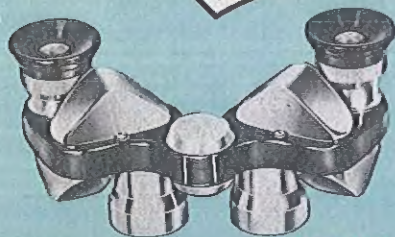


WOODSMAN 8 x 30

COATED • Center Focus • 20 oz. American Style.
#342

THOROBRED

MINIATURE SPORT BINOCULARS



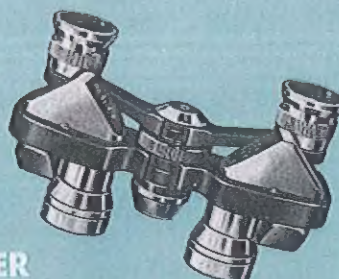
5 POWER

THOROBRED

COATED • Individual Focus • 6½ oz. • Pocket model
#305

6 POWER

COATED • Center Focus • 7 oz. • Pocket model.
#375



10 POWER

COATED • Center Focus • 7 oz. • Pocket model.
#377

7 POWER

COATED • Center Focus • 7 oz. • Pocket model • Japanese.
#376

8 POWER

COATED • Center Focus • 7 oz. • Pocket model.
#398

FIELD GLASSES for promotions



EAGLE EYE 3 POWER

New low priced Field Glass. Wide, sharp vision with 37mm (1 1/4") ground and polished lenses. Steel body with easy-grip leatherette, black enamel trim. Smooth focusing action. Height closed 3 3/4"; open 4 3/4". Weight 8 oz. Popularly priced for volume sales and promotions. Japanese.

#363

\$2.98

EAGLE EYE with case

Same as #363, but with leatherette carrying case and shoulder strap. Japanese.

#364

\$3.50



THOROBRED 4 x 40

The ideal glass for all outdoor sports fans, football, baseball, racing, etc. This top grade glass with coated optics, gives unusual clarity and definition of objects. Interpupillary adjustment. With genuine leather Pigskin case. Japanese.

#359

\$14.95

VARSITY

4 x 40

Most versatile 4 Power French Sport Glass! The 40mm coated objectives give unusual clarity. Has fixed sunshade. Complete with cowhide leather case. For baseball . . . football . . . basketball . . . races . . . nature study.

#352

\$21.00



SPORTSTER FIELD GLASS

4x35

A lightweight, all metal field glass, with center focusing and interpupillary adjustments; the quality of optics are exceptional. Complete with leatherette case, carrying strap and neck strap. Perfect for football, baseball and all other sporting events; bird watching and the theatre. Height open 5", closed 3 3/4". Weight 12 oz. Made in Germany.

#353 SPORTSTER 4 power glass

\$7.50

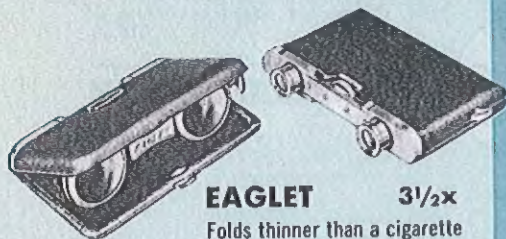


#352

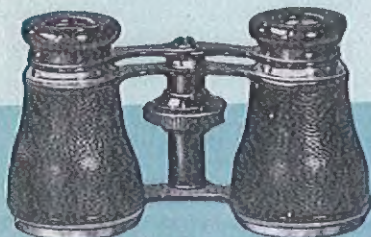
HIGH QUALITY OPERA GLASSES



SEEFAR 2 1/2 x
Stylish opera glass, genuine leather covered in assorted colors on metal body. Nickel trimmed. Featherweight. Japanese.
#366 \$6.95

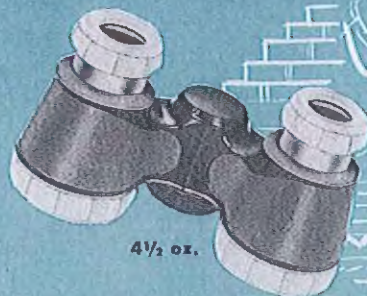


EAGLET 3 1/2 x
Folds thinner than a cigarette case. PRESS, it opens! Leather covered in assorted colors, chromed metal body. Center Focus, for theater and sports. Japanese.
#362 \$9.95



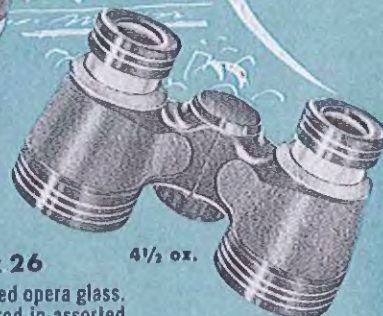
METROPOLITAN 2 1/2 x 24
Fine quality pocket-size glasses, ideal for opera! High grade achromatic lenses for sharp, brilliant images. With Morocco leather pouch to fit into lady's purse. French.
#346 \$12.50

METROPOLITAN DELUXE 2 1/2 x 27
Similar to #346, but a deluxe, gold-plated model.
#347 \$14.95



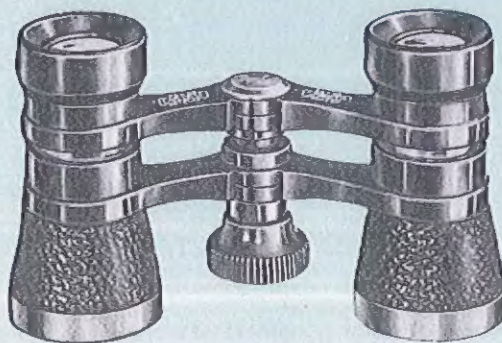
4 1/2 oz.

HY-SCORE 2 1/2 x 26
Italian styled for opera lovers. Genuine leather covered in assorted colors. Mother of Pearl inlaid. Coated optics. Exclusive design. Japanese.
#354 \$17.50



4 1/2 oz.

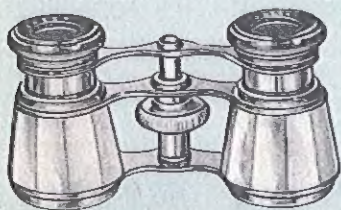
HY-SCORE 2 1/2 x 26
Popular priced Italian styled opera glass. Fine quality, leather covered in assorted colors. Coated optics. Exclusive design. Japanese.
#348 \$12.50



New
ALL INTERNAL and
EXTERNAL OPTICAL
SURFACES HARD
COATED

SPORTSTER 3 x 28
Lowest price quality opera glass produced in Germany. Made of durable magnesium, this is the lightest weight, only 3 1/2 oz., opera glass made! Large eyepieces, coated optics, with interpupillary adjustment. Fits into pocket! Exclusive with us.
#355 \$29.95

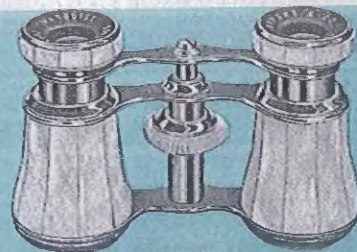
FRENCH MOTHER OF PEARL OPERA GLASSES



QUEEN 2 1/2 x 22
New, beautiful design, covered with exquisite Mother of Pearl, in white, beige or black. Lamé pouch fits into handbag. Coated optics
#356 \$30.00

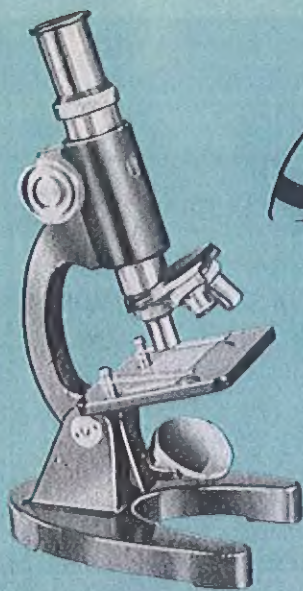


LA BOHEME 3 x 25
Newly designed French opera glass, power increased to 3x, giving closer, sharper image. In white, beige or black pearl. Lamé pouch to fit into evening bag. Coated optics
#361 \$55.00



MARQUISE 2 1/2 x 25
Handsome, covered with Inlaid Mother of Pearl, in white, beige or black. Precision optics. Lamé pouch fits into handbag. Coated optics
#357 \$40.00

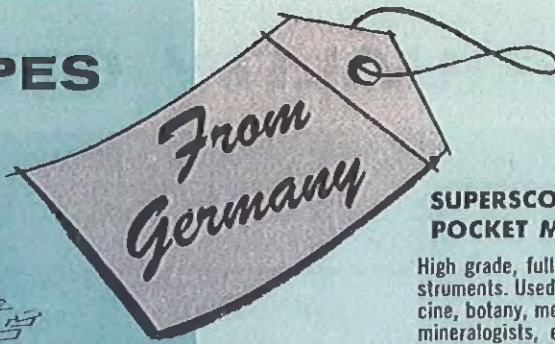
MICROSCOPES



JUNIOR STUDENT MICROSCOPE

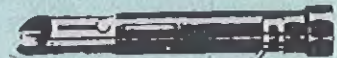
Ideal beginners model, a replica of more advanced models. All steel body weighing only 20 ozs. Crinkled black finish with screw adjustment. Plano sub-stage mirror. Magnifies 100, 200 or 300 times by turning the revolving turret. Tilts 45 degrees, height 8". With two specimen slides.

#429 100x, 200x, 300x. Made in Japan. \$5.95



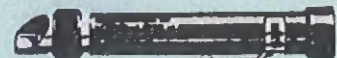
SUPERSCOPE POCKET MICROSCOPES

High grade, fully color corrected instruments. Used by students of medicine, botany, metallurgy, toolmakers, mineralogists, etc. Same size as a fountain pen. Slide holder attachment #426, 427 available for use as a standard microscope.



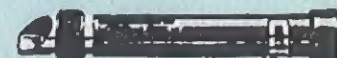
#422 40x to 60x

Button focusing, with German silver extension tube. Smooth black finish. \$10.50



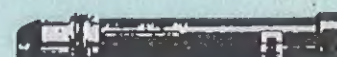
#423 40x to 60x

Microscrew focusing system. German silver extension tube with mirror. Black finish. \$11.50



#424 80x to 120x

Microscrew focusing system. German silver extension tube with mirror. Black finish. \$15.50



#425 40x to 120x

Sliding button and microscrew focusing systems for rough and fine focusing. German silver extension tube. \$16.50



This is an Exclusive model.

#426

Removable slideholder for #422, 423 and 424. \$3.00

#427

Removable slideholder for #425. \$3.00



German

PROFESSIONAL MODELS

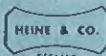
#436 50x—430x

#437 50x—930x

Designed for serious students. Spherically and chromatically corrected objectives, are parafocalized in revolving quadruple nose piece, so that the image remains sharp when rotating turret. Iris diaphragm, 1 3/4" plano-concave mirror, inclinable body, takes standard Huyghenian eye pieces. Coarse adjustment. Furnished in Alderwood cabinet with lock and handle. Net weight 5 lbs.

#436 with 5x, 10x eye pieces and 10x, 20x and 43x objectives. \$125.00

#437 with 5x, 10x, 15x eye pieces and 10x, 20x, 43x, 62x objectives. \$150.00



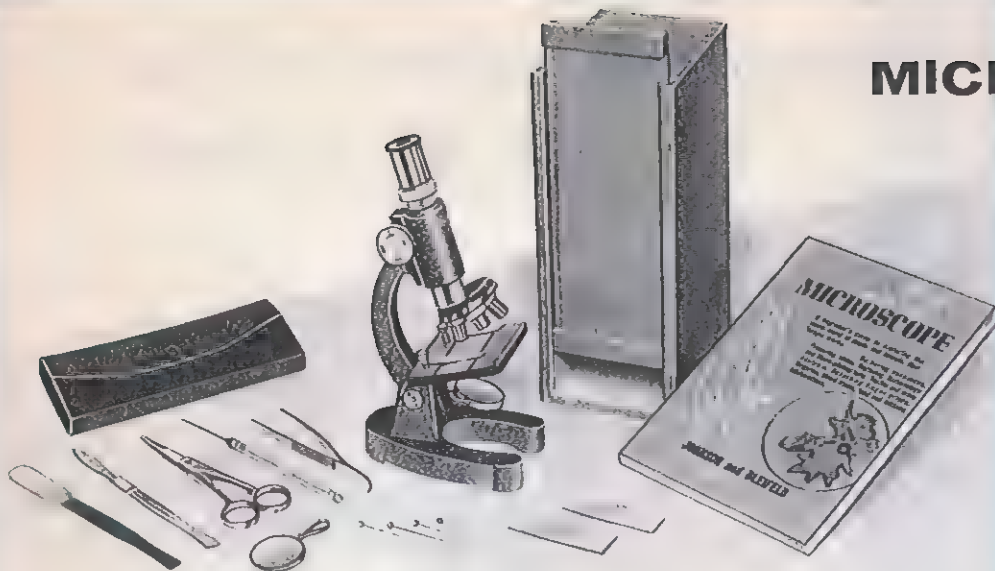
BINOLOOP 4x

This is a double-loop instrument for third dimensional viewing. Has aplanatic and achromatic coated optics. For use by Physicians, Bacteriologists, Watchmakers, Toolmakers, Engravers, etc. Not a sport glass, but a professional tool. It will reduce eye fatigue. German made.

#351 \$29.75



MICROSCOPE SETS



JUNIOR 100x—200x—300x 17 piece MICROSCOPE SET

A compact kit designed to give students all the basics needed to start advanced study. Contains one #429 3-turret junior microscope, pin, tweezer, knife, spatula, scissors, magnifier, prepared slides, etc. Includes Johnson & Bleifield 131 page book, "Hunting with the Microscope." Made in Japan.

#430 100x, 200x, 300x microscope kit. \$9.95

YOSHIDA 100x—600x 17 piece MICROSCOPE SET

100x—600x professional turret type student microscope. Set includes a mechanical stage and a 131 page book and dissecting kit. Huygens eyepieces give 6 intermediary stages of power. Plano convex mirror is mounted on tiltable body fitted with genuine rack and pinion screw adjustment and revolving diaphragm. Ideal for the advanced amateur. Made in Japan.

#435 Yoshida 100x—600x \$32.50

YOSHIDA 50x—600x—900x—1200x 18 piece MICROSCOPE SETS PROFESSIONAL TYPES

50x—600x 18 pcs. Yoshida professional type microscope set. For advanced students or professionals. Tilts 90°—dovetailed spiral rack—5 hole diaphragm—3½" sq. stage—triple revolving turret—wooden case with lock. Includes 131 p. book by Johnson and Bleifield, "Hunting with the Microscope" and dissecting kit. Standard Huygenian eyepieces and parafoalized objectives.

#438 50x—600x Yoshida microscope set \$75

50x—900x Yoshida microscope set. Same as #438 but different optical equipment.

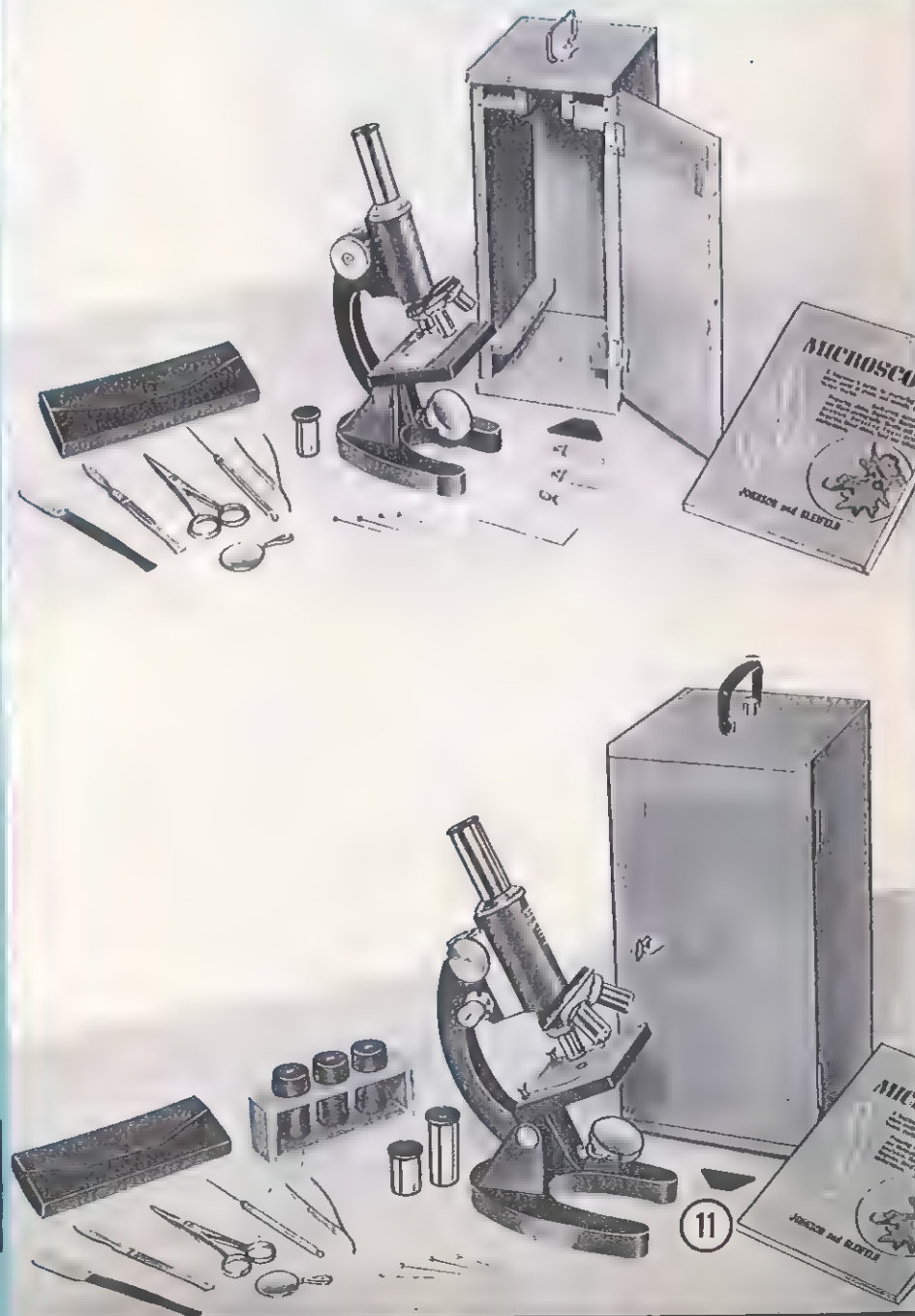
#439 50x—900x Yoshida microscope set \$90

50x—1200x Yoshida microscope set. Same as #438 but different optical equipment. Also has built-in NA 0.65 condenser and fine adjustment.

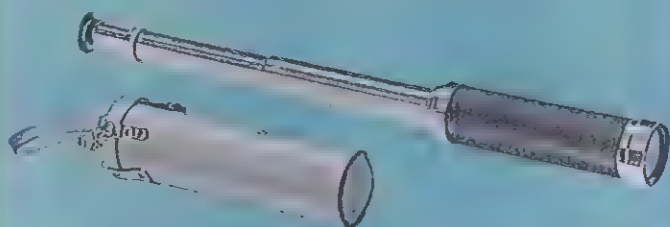
#440 50x—1200x Yoshida microscope set

\$110

	Eye pcs.	Huygenian Objectives	Adjustment	Condenser	Magnification
#438	10x 15x	5x 10x 40x	Coarse	None	50x to 600x
#439	5x 10x 15x	5x 10x 60x	Coarse	None	50x to 900x
#440	5x 10x 20x*	10x 40x 60x	Fine	NA 0.65	50x to 1200x



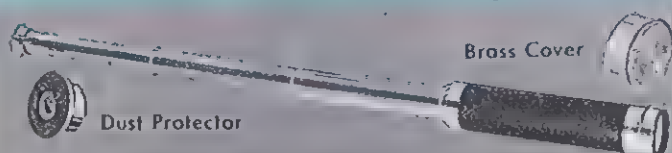
TELESCOPES & SPOTTING SCOPES BY HY-SCORE



HY-SCORE VARIABLE POWER TELESCOPES

Versatile, variable telescopes having not one but four magnifications. Rubberized covered metal body with chrome tubes. Click stops and gradations in red with power markings on draw tube. Coated optics. Pigskin leather case with carrying strap. Made in Japan.

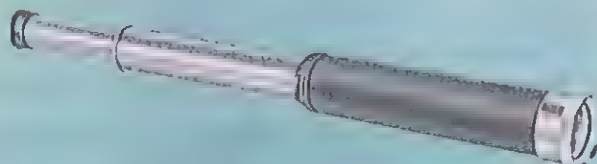
No.	Powers	Objective	Length		No. Sec.	Wght. oz.	Price
			Cl.	Ex.			
415	6x 10x 15x 20x	1 1/16"	7 1/2"	14"	3	9	16.00
416	15x 20x 25x 30x	1 1/4"	7 1/2"	19 1/4"	4	13	21.00



BRASS TELESCOPES by VION Paris with Air Cell separated coated objectives

VION's objective lense is made with air-spaced cells, a superior construction found in professional telescopes. Coated lenses give sharp and brilliant image. Shutter-type dust protector on ocular and brass cap for added protection. Hand-sewn leather covered body. The highest quality hand telescope made. Made in France.

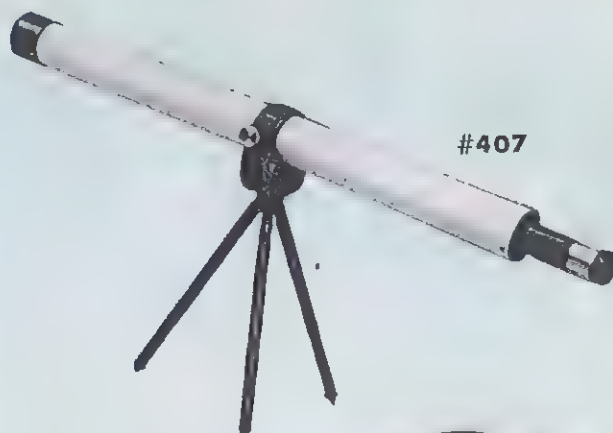
No.	Power	Objective	Length		No. Sec.	Wght. oz.	Price
			Closed	Extended			
400	10x	1"	5 5/16"	14 3/8"	4	16	21.00
401	15x	1 1/4"	7"	17 1/2"	4	18	30.00
402	20x	1 1/2"	8 1/2"	23 3/4"	4	18 1/2	35.00
403	25x	1 3/4"	9"	26"	4	20	40.00
404	30x	2"	10"	29 1/2"	4	22	70.00



HY-SCORE FIXED POWER TELESCOPES

Popular-priced HY-SCORE 3 section fixed power telescopes are made of black anodized aluminum with chrome trim. Large 1 1/4" coated objectives. Light and durable. Gift boxed. Made in Japan.

No.	Power	Objective	Length		No. Sec.	Wght. oz.	Price
			Closed	Extended			
412	10x	1 1/4"	7"	9"	3	7	8.00
413	20x	1 1/4"	7"	11"	3	8	9.00
409	30x	1 1/4"	7"	14"	3	9 1/2	10.00
414	40x	1 1/4"	7"	14"	3	9 1/2	12.00



#407



#410

"Discover the stars," a 130 p. book by Johnson & Adler included Free.

HY-SCORE SPOTTING SCOPES

The coated achromatic lens system of the HY-SCORE spotting scopes will give brilliant images of pin-point targets. They are designed for target shooters and outdoor enthusiasts. The 2" Mod. 410 is also suitable for celestial observation. Made of light-weight aluminum with durable enamel finish. The telescope rotates on a vibration-free swivel tripod.

No.	Power	Objective	Length		Field of View 1,000 yds.	Wght.	Price
			Closed	Extended			
407	30x	1.6"	16 3/4"	20 3/4"	59'	1 lb. 10	14.95
410*	50x	2"	24"	26 3/4"	48'	4 lb. 14	55.00

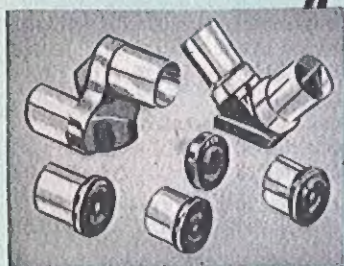
*Additional features of Mod. 410: Star diagonal prism for right-angle viewing—Deep sunshade—Non-rusting brass tips on tripod legs—Mount is suitable for either terrestrial or celestial observation—"Discover the Stars," a 130 p. book by Johnson & Adler, is furnished free.

HY-SCORE ASTRONOMICAL TELESCOPES

#457 or #411



"Discover the stars," a 130 p. book by Johnson & Adler included free.



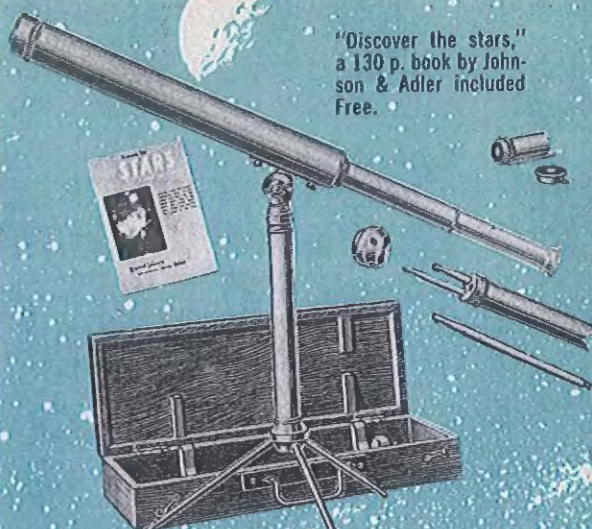
2-inch HY-SCORE ALTAZIMUTH REFRACTOR

The popular-priced HY-SCORE refractor is equipped with slow motion controls for both altitude and azimuth. Standard equipment includes—4x10mm viewfinder with crosshair—3 Huygenian Mittenzwey eyepieces, 83x(6mm), 40x(12.5mm), 25x(20mm)—rack and pinion mechanism—star diagonal—sunglass—two section tripod and cabinet. Complete instruction book and guarantee card, plus free 130 p. book "Discover the Stars" by Johnson & Adler.

Optical specifications: Focal length 500mm, focal ratio F/10, resolving power 2.4 seconds, coated Fraunhofer type air space cell, achromatic objective.

#457 HY-SCORE 2" altazimuth refractor, complete\$75.00

#457-4 125x(4mm) Orthoscopic eyepiece, additional..\$15.00



"Discover the stars," a 130 p. book by Johnson & Adler included Free.

1 3/4 & 2-inch VION TELESCOPES

Extremely high-grade French telescopes, precision-made of solid brass, white enamelled. Top-quality lenses produce a brilliant image, and the eye pieces are interchangeable for both Terrestrial and Celestial observation. These professional instruments are perfect for students of Astronomy and for long distance observation. Can easily be disassembled and carried around in its handsome wood carrying case.

#405 1 3/4" Coated objective, magnifies Terrestrial objects 25x ... Celestial objects 50x. \$100.00

#406 2" Coated objective magnifies Terrestrial objects 35x ... Celestial objects 60x. \$140.00

2.4-inch HY-SCORE ALTAZIMUTH REFRACTOR

2.4" HY-SCORE refractor without slow motion control has 800mm focal length. Furnished with the following Huygenian eyepieces: 88x(9mm), 64x(12.5mm), 40x(20mm). Resolving power 2 seconds. All other specifications are same as Model 457 above. Includes image erecting system.

#411 HY-SCORE 2.4" altazimuth refractor, complete.....\$100.00



#417

"Discover the stars," a 130 p. book by Johnson & Adler included Free.

2.4-inch COMBINATION TELESCOPES

HY-SCORE 40 power telescope combines astronomical and terrestrial features in one professional-type instrument. The large 2.4" objective lens is achromatic and coated. Field of view, 105 ft. at 1,000 yards. Image erecting system—smooth sliding focus—anti-glare shade—white enamel finish. Complete with 5 1/2 ft. wooden telescoping tripod and adjustable head. Weight 8 lb. Perfect for amateur astronomers, nature study or just "looking around."

#417 HY-SCORE telescope with erecting system, includes free "Discover the Stars," 130 p. book by Johnson & Adler, retail value \$1.25\$42.50

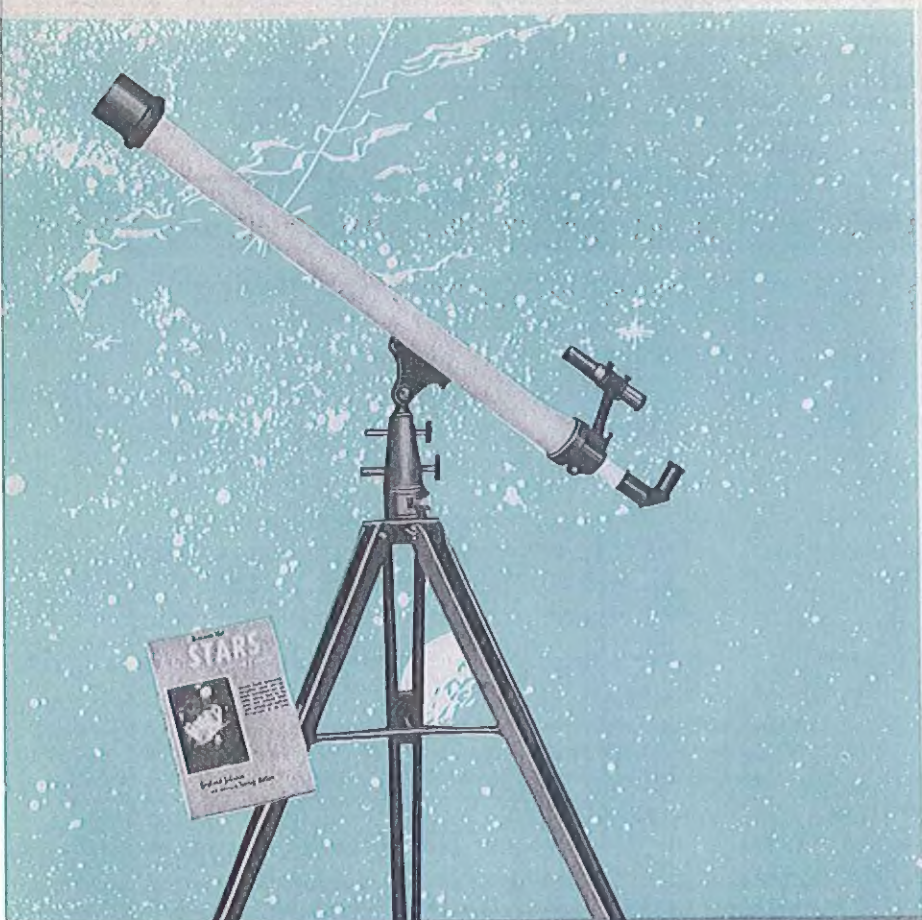
#418 Same as No. 417, but without erecting system...\$37.50



TRIPOD EXTENDED

#418

HY-SCORE Goto 2.4-inch Astronomical Refractors



HY-SCORE GOTO 2.4 Inch ALTAZIMUTH REFRACTOR

This refractor is equipped with slow motion control knobs for altitude and azimuth. Standard equipment includes: 6x17mm removable achromatic viewfinder with exclusive cross-hair and focusing adjustment, 3 coated eyepieces (150x6mm, 90x10mm, 45x20mm), rack and pinion mechanism, star diagonal, erecting prism, sunglass, wooden cabinet, tripod with equipment table, complete instruction booklet, guarantee card plus Book "Discover the Stars", 130 pages of educational and scientific material by Johnson and Adler.

Optical Specifications: Focal length 900mm, Focal ratio F/15, resolving power 1.93 sec.

#451 HY-SCORE GOTO 2.4" Altazimuth Refractor complete \$125.00

Additional eyepieces available

#451-30 30mm for 30 power..... \$15.00

#451-40 40mm for 23 power..... \$15.00

Additional equipment available

#451-SPS Sun Projecting Screen..... \$18.50

HY-SCORE GOTO refractors are guaranteed to be fully corrected for astigmatism, spherical aberration, coma, and will give correct point of image.



HY-SCORE GOTO 2.4 Inch EQUATORIAL REFRACTOR

This refractor is equipped with a modern equatorial mounting. The declination and R.A. have slow motion control handles. Standard equipment consists of 6x17mm removable achromatic viewfinder with exclusive cross-hair and focusing adjustment, rack and pinion mechanism, 4 coated eyepieces (200x6mm, 133x9mm, 96x12.5mm, 48x25mm), star diagonal, erecting prism, sunglass, wooden cabinet, tripod with equipment table, complete instruction booklet, guarantee card, plus book "Discover the Stars", 130 pages of educational and scientific material by Johnson and Adler.

Optical Specifications: Focal length 1200mm, Focal ratio F/20, resolving power 1.93 sec.

#452 HY-SCORE GOTO 2.4" Equatorial Refractor complete \$225.00

Additional eyepieces available

#452-30 30mm for 40 power..... \$15.00

#452-40 40mm for 30 power..... \$15.00

Additional equipment available

#452-SPS Sun Projecting Screen..... \$18.50

HY-SCORE Goto 3-inch Astronomical Refractors

HY-SCORE GOTO 3 Inch ALTAZIMUTH REFRACTOR

This altazimuth refractor is equipped with slow motion control handles for altitude and azimuth. Standard equipment includes a 7x22mm removable achromatic viewfinder, with exclusive cross-hair focusing adjustment, 5 coated eye-pieces (217x6mm, 144x9mm, 104x12.5mm, 52x25mm, 72x18mm), rack and pinion mechanism, star diagonal, erecting prism, sunglass, wooden cabinet, tripod with equipment, table, complete instruction booklet, guarantee card plus book "Discover the Stars", 130 pages of educational and scientific material by Johnson and Adler.

Optical Specifications: Focal length 1300mm, Focal ratio F/17, resolving power 1.5 sec.

#453 HY-SCORE GOTO 3" Altazimuth Refractorcomplete \$265.00

Additional eyepieces available

#453-30 30mm for 43 power.....\$15.00

#453-40 40mm for 32 power.....\$15.00

Additional equipment available

#453-SPS Sun Projecting Screen.....\$18.50



HY-SCORE GOTO refractors are guaranteed to be fully corrected for astigmatism, spherical aberration, coma, and will give correct point of image.

HY-SCORE GOTO 3 Inch EQUATORIAL REFRACTOR

This refractor is equipped with a worm gear equatorial mounting of modern design. Both the declination and R.A. have slow motion control handles. Standard equipment includes 7x22mm removable achromatic viewfinder with exclusive cross-hair and focusing adjustment, reading circle with vernier scale for declination and R.A., sun projecting screen, rack and pinion mechanism, 5 coated eyepieces (217x6mm, 144x9mm, 104x12.5mm, 52x25mm, 72x18mm), sun, star diagonal, erecting prism, sunglass, wooden cabinet, tripod with equipment table, complete instruction booklet, guarantee card plus book "Discover the Stars", 130 pages of educational and scientific material by Johnson and Adler.

Optical Specifications: Focal length 1300mm, Focal ratio F/17, resolving power 1.5 sec.

#454 HY-SCORE GOTO 3" Equatorial Refractorcomplete \$435.00

Additional eyepieces available

#454-30 30mm for 43 power.....\$15.00

#454-40 40mm for 32 power.....\$15.00



HY-SCORE Goto 4 and 6-inch

Astronomical Refractors

HY-SCORE GOTO 6 Inch EQUATORIAL REFRACTOR with weight driving clock on solid steel base.

The ultimate in fine astronomical refractors, with exacting optical and mechanical accessories. Fine equatorial mount, with declination and R.A. setting circles and slow motion handles. Instruction booklet, guarantee card, and 130 page book by Johnson and Adler is included with each unit.

Optical specifications: Focal length 2250mm, resolving power with respect to double star 0. 77. Light gathering power 460x for naked eye. Faintest discernible star 12.^m7. Furnished with 7 coated eyepieces.

List of Accessories

Eye Pcs.	Other accessories
Orthoscopic 562x4mm	Finder telescope 10x30mm
Orthoscopic 375x6mm	Star diagonal
Orthoscopic 250x9mm	Sun diagonal
Mittenzwey- 180x12.5mm	Sun glasses/two/
Huygens 125x18mm	Moon glass
" 90x25mm	Weight driving clock
Kellner 56x40mm	Star spectroscope, Case for accessories.

#456 HY-SCORE GOTO 6" Equatorial Refractorcomplete \$4975.00

HY-SCORE GOTO refractors are guaranteed to be fully corrected for astigmatism, spherical aberration, coma, and will give correct point of image.

The 4 inch and 6 inch HY-SCORE GOTO Equatorial Refractors are designed for educational institutions and for advanced students of astronomy.

HY-SCORE GOTO 4 Inch EQUATORIAL REFRACTOR

with electric driving clock movement

This fine professional refractor may be rotated 360° by means of slow motion handles both for declination and R.A. on smooth worm gears for accurate setting on reading circles and vernier scales.

Standard equipment includes 7x22mm achromatic removable view finder, with exclusive cross-hair and focusing adjustment, pinion mechanism, star and sun diagonal, sunglass, sun projector, electric driving clock, wooden cabinet, tripod with equipment table, complete instruction booklet, guarantee card plus book "Discover the Stars", 130 pages of educational and scientific material by Johnson and Adler.

Optical specifications: Focal length 1500mm, resolving power 1.16. Faintest discernible star 11.^m8. Furnished with 4 coated eyepieces (Mittenzwey Huygens 250x6mm, 120x12.5mm, 60x25mm, Kellner 38x40mm).

#455 HY-SCORE GOTO 4" Equatorial Refractorcomplete \$995.00

Additional equipment available

#455-4 4mm orthoscopic eye piece for 375 power \$15.00